

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## BERMOCOLL E 320 G

Version 2      Revision Date 16.06.2011      Print Date 16.06.2011      GB / EN

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### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Trade name : BERMOCOLL E 320 G

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Specific use(s): Rheological modification  
Water retention and stability

#### 1.3 Details of the supplier of the safety data sheet

Company : Akzo Nobel Functional Chemicals AB  
SE 444 85 Stenungsund  
Sweden

Telephone : +4630385000

Telefax :

E-mail address : Regulatory.AffairsSE@akzonobel.com

#### 1.4 Emergency telephone number

Emergency telephone number : +31 570679211 (Fax. +31 570679801)  
Akzo Nobel Chemicals, Deventer, NL  
China: 0532 83889090

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### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

##### Risk advice to man and the environment

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

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Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

## **Labelling according to EC Directives (1999/45/EC)**

Further information : The product does not need to be labelled in accordance with EC directives or respective national laws.

## **2.3 Other hazards**

Risk of dust explosion.

PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).  
This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Remarks : No dangerous ingredients according to Directive 67/548/EEC.

#### Candidate List of Substances of Very High Concern for Authorisation

Candidate List of Substances : This product does not contain substances of very high of Very High Concern for Authorisation concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

#### Non-hazardous substance

Chemical Name	CAS-No. EC-No. REACH No.	Concentration [%]
Ethylhydroxyethyl cellulose	9004-58-4	80 - 100

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## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

- General advice : No hazards which require special first aid measures.
- If inhaled : Remove to fresh air.  
Keep patient warm and at rest.  
Rinse nose and mouth with water.
- In case of skin contact : Remove contaminated clothing.  
Rinse with water.
- In case of eye contact : Rinse with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Never give anything by mouth to an unconscious person.

### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.
- Risks : No information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No information available.

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## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting / Specific hazards arising from the chemical : Do not allow run-off from fire fighting to enter drains or water courses.  
Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.

### 5.3 Advice for firefighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.  
Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid dust formation.

### 6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses.  
No special environmental precautions required.

### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up / Methods for containment : Sweep up and shovel.  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

Additional advice : For personal protection see section 8.

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## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.  
Avoid creating dust.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Avoid spillage on floor as the product can become very slippery when wet.

Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.

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No sparking tools should be used.

Dust explosion class : St1

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in a dry place.  
Store at room temperature in the original container.  
Keep container tightly closed.

Advice on common storage : No special restrictions on storage with other products.

Other data : No decomposition if stored and applied as directed.

## 7.3 Specific end uses

Specific use(s) : No information available.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis	Form of exposure
Dust		TWA	4 mg/m <sup>3</sup>	1997-01-01	GB EH40	Total dust

STEL: Short term exposure limit

TWA: Time Weighted Average (TWA)

### 8.2 Exposure controls

#### Engineering Controls

Provide appropriate exhaust ventilation at places where dust is formed.

#### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.  
In the case of dust or aerosol formation use respirator with an approved filter.  
Half mask with a particle filter P2 (EN 143).

Hand protection : For prolonged or repeated contact use protective gloves.  
Protective gloves complying with EN 374.

Eye protection : Safety glasses

Hygiene measures : General industrial hygiene practice.

#### Environmental exposure controls

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General advice : Try to prevent the material from entering drains or water courses.  
No special environmental precautions required.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Appearance

Form : powder

Colour : Whitish.

Odour : odourless

Odour Threshold : no data available

#### Safety data

pH : 6 - 8 at 0.5 % solution

Melting point/range : no data available

Boiling point/boiling range : not applicable

Flash point : not applicable

Ignition temperature : 420 °C

Evaporation rate : not applicable

Flammability (solid, gas) : no data available

Lower explosion limit : 30 g/m<sup>3</sup>

Upper explosion limit : no data available

Vapour pressure : not applicable

Relative vapour density : not applicable

Relative density : no data available

Solubility in other solvents : no data available

Water solubility : Soluble, gel formation.

Partition coefficient: n-octanol/water : no data available

Autoignition temperature : 120 °C

Decomposition temperature : > 100 °C  
Avoid elevated temperatures. At temperatures above ~100 °C the product will slowly decompose and dissolving qualities are impaired. At temperatures above 200 °C charring of the product will occur.

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Viscosity, dynamic	: 1,850 - 2,650 mPa.s at 20 °C pH 7 at 2 % solution.
Viscosity, kinematic	: no data available
Explosive properties	: no data available
Minimum ignition energy	: > 10 mJ
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

## 9.2 Other information

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under normal conditions.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Chemical stability and Hazardous reactions	: Dust may form explosive mixture in air.
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### 10.4 Conditions to avoid

Conditions to avoid	: Keep away from open flames, hot surfaces and sources of ignition.
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### 10.5 Incompatible materials

Materials to avoid	: None known.
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### 10.6 Hazardous decomposition products

Hazardous decomposition products	: No hazardous decomposition products are known.
Thermal decomposition	: > 100 °C Avoid elevated temperatures. At temperatures above ~100 °C the product will slowly decompose and dissolving qualities are impaired. At temperatures above 200 °C charring of the product will occur.

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## 11. TOXICOLOGICAL INFORMATION

### Product information:

#### Hazard Summary

Inhalation	: Product dust may be irritating to eyes, skin and respiratory system.
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Skin	: Product dust may be irritating to eyes, skin and respiratory
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system.

Eyes : Product dust may be irritating to eyes, skin and respiratory system.

Ingestion : Not irritating.

## **Toxicology Assessment**

Further information : No further data available.

### **11.1 Information on toxicological effects**

#### **Test result**

Acute oral toxicity : LD50: > 5,000 mg/kg  
Species: rat  
The value is estimated from tests on similar products.

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## **12. ECOLOGICAL INFORMATION**

### **Product information:**

#### **Ecotoxicology Assessment**

Results of PBT assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).  
This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Additional ecological information : None known.

### **12.1 Toxicity**

#### **Test result**

Toxicity to fish : LC50: > 100 mg/l  
Exposure time: 96 h  
Species: *Oncorhynchus mykiss* (rainbow trout)  
The value is estimated from tests on similar products.

Toxicity to daphnia and other aquatic invertebrates. : EC50: > 100 mg/l  
Exposure time: 48 h  
Species: *Daphnia magna* (Water flea)  
The value is estimated from tests on similar products.

### **12.2 Persistence and degradability**

#### **Product information:**

Biodegradability : Not readily biodegradable.

### **12.3 Bioaccumulative potential**

#### **Product information:**

Bioaccumulation : Bioaccumulation is unlikely.

### **12.4 Mobility in soil**

#### **Product information:**

Mobility : no data available

### **12.5 Results of PBT and vPvB assessment**

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## Product information:

PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).  
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## 12.6 Other adverse effects

### Product information:

Biochemical Oxygen Demand (BOD) : no data available

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## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Contaminated packaging : Empty remaining contents.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## 14. TRANSPORT INFORMATION

### 14.1 UN number

ADR : Not dangerous goods  
RID : Not dangerous goods  
IMDG : Not dangerous goods  
IATA : Not dangerous goods

### 14.2 Proper shipping name

ADR : Not dangerous goods  
RID : Not dangerous goods  
IMDG : Not dangerous goods  
IATA : Not dangerous goods

### 14.3 Transport hazard class

ADR : Not dangerous goods  
RID : Not dangerous goods  
IMDG : Not dangerous goods  
IATA : Not dangerous goods

### 14.4 Packing group

ADR : Not dangerous goods  
RID : Not dangerous goods  
IMDG : Not dangerous goods  
IATA : Not dangerous goods

### 14.5 Environmental hazards

ADR : Not dangerous goods  
RID : Not dangerous goods  
IMDG : Not dangerous goods  
IATA : Not dangerous goods

### 14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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## 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Major Accident Hazard Legislation : 96/82/EC Update: 2003  
Directive 96/82/EC does not apply

Water contaminating class (Germany) : WGK 1 slightly water endangering

#### Notification status

EINECS : y (positive listing)  
On the inventory, or in compliance with the inventory

CH INV : y (positive listing)  
The mixture contains a polymer. The monomers for this polymer have been notified.

US.TSCA : y (positive listing)  
All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA Inventory exemption.

DSL : y (positive listing)  
All components of this product are on the Canadian DSL list.

AICS : y (positive listing)  
On the inventory, or in compliance with the inventory

NZIoC : n (Negative listing)  
Not in compliance with the inventory

ENCS : y (positive listing)  
On the inventory, or in compliance with the inventory

ISHL : y (positive listing)  
On the inventory, or in compliance with the inventory

KECI : y (positive listing)  
On the inventory, or in compliance with the inventory

PICCS : y (positive listing)  
On the inventory, or in compliance with the inventory

IECSC : y (positive listing)  
On the inventory, or in compliance with the inventory

For explanation of abbreviation see section 16.

#### Further information

This product is to be considered as a substance according to EU-legislation.

### 15.2 Chemical Safety Assessment

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BERMOCOLL E 320 G : not required

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## 16. OTHER INFORMATION

**Full text of H-Statements referred to under sections 2 and 3.**

### Explanations for possible abbreviations mentioned in section 2

PBT : PBT: Persistent, bioaccumulative and toxic.  
vPvB : vPvB: Very persistent and very bioaccumulative.  
OEL : OEL: Occupational exposure limit.

### Notification status explanation

EINECS	European Inventory of Existing Commercial Chemical Substances (EINECS)
CH INV	Switzerland. New notified substances and declared preparations
US.TSCA	United States TSCA Inventory
DSL	Canadian Domestic Substances List (DSL)
AICS	Australia Inventory of Chemical Substances (AICS)
NZIoC	New Zealand. Inventory of Chemical Substances
ENCS	Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL	Japan. ISHL - Inventory of Chemical Substances (METI)
KECI	Korea. Korean Existing Chemicals Inventory (KECI)
PICCS	Philippines Inventory of Chemicals and Chemical Substances (PICCS)
IECSC	China. Inventory of Existing Chemical Substances in China (IECSC)

### Further information

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